

# UHER

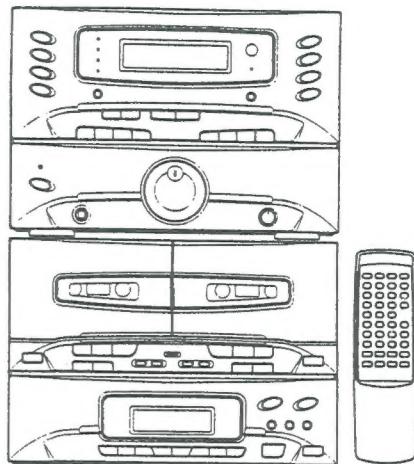
# Reference 2000

**AM/FM STEREO RECEIVER  
CASSETTE PLAYER/RECORDER  
3-DISC COMPACT DISC CHANGER**

#### **SPECIFICATIONS**

Power Source  
Power Consumption  
Output Power

230V/50Hz  
700 Watts  
120W x 2 (at 0.9% THD)



#### **Tuner Section**

Frequency Range  
Intermediate Frequency  
Sensitivity  
Multiplex Separation

AM: 531-1620 kHz FM: 87.5-108 MHz  
AM: 450 kHz FM: 12.7 MHz  
AM: 900 uV/M (at 1MHz) FM: 10 uV (at 98MHz)  
30 dB

#### **Cassette Section**

Tape Speed  
Frequency Response  
Wow & Flutter

1-7/8 IPS (4.75 P.S.)  
63 Hz - 12.5 kHz  
0.2% WRMS

#### **Amplifier Section**

Total Harmonic Distortion (1 kHz)  
Signal To Noise Ratio  
Output Power (at 0.9% THD)

0.1%  
70 dB  
120W x 2

#### **Compact Disc Player Section**

Channel Separation (1 kHz)  
Total Harmonic Distortion  
Signal To Noise Ratio

50 dB  
0.1%  
65 dB

#### **Dimensions**

W= 279mm (11") H=394mm (15-1/2")  
D= 311mm (12-1/4")

#### **Weight**

14.3 kgs (31.46 lbs)

# SERVICE PUBLICATION

Note All the specifications and features are subject to change without notice

## CD Adjustments

The following steps should be performed before attempting adjustments in the CD section.

1. Remove the turntable by sliding the Guide Plate outward. (See Fig. 9)
2. Disassemble the Base Cover by removing 2 screws. (See Fig. 9)

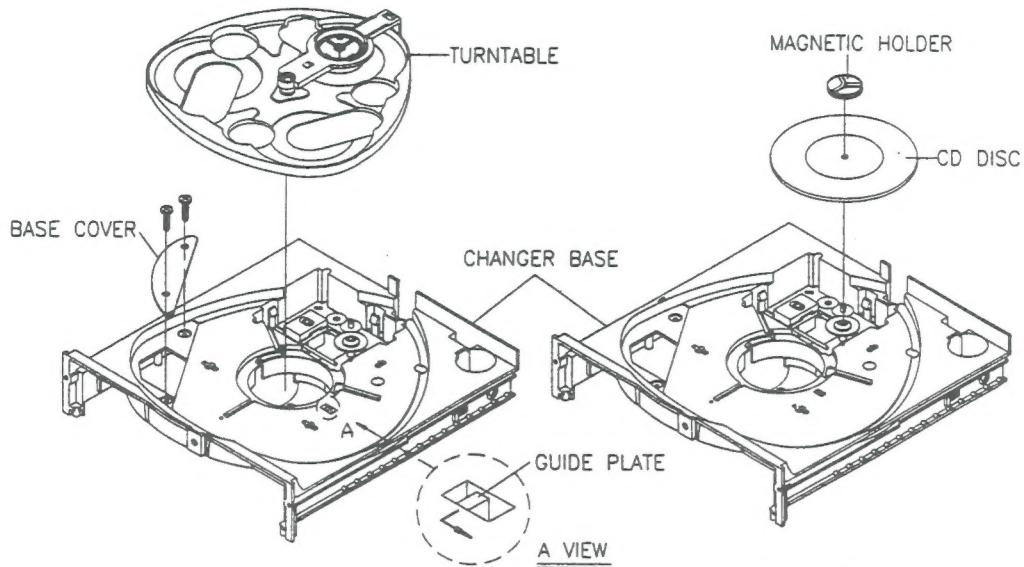


Figure 9

### CAUTION:

The laser beam may always be active when the turntable is removed.

Use of controls for adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.

### RF ADJUSTMENT

1. Connect CN08 to the power supply, and CD player in stop mode.
2. Connect the DC meter to CN10-.
3. Adjust VR01, for a reading of  $0V \pm 20mV$ . (See Fig. 10)

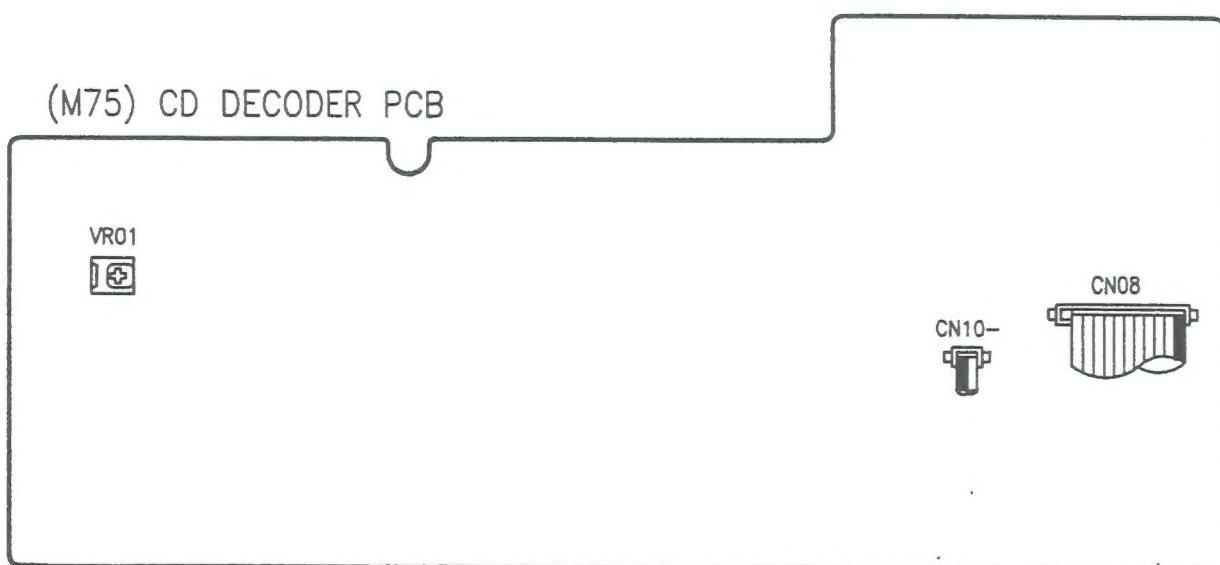
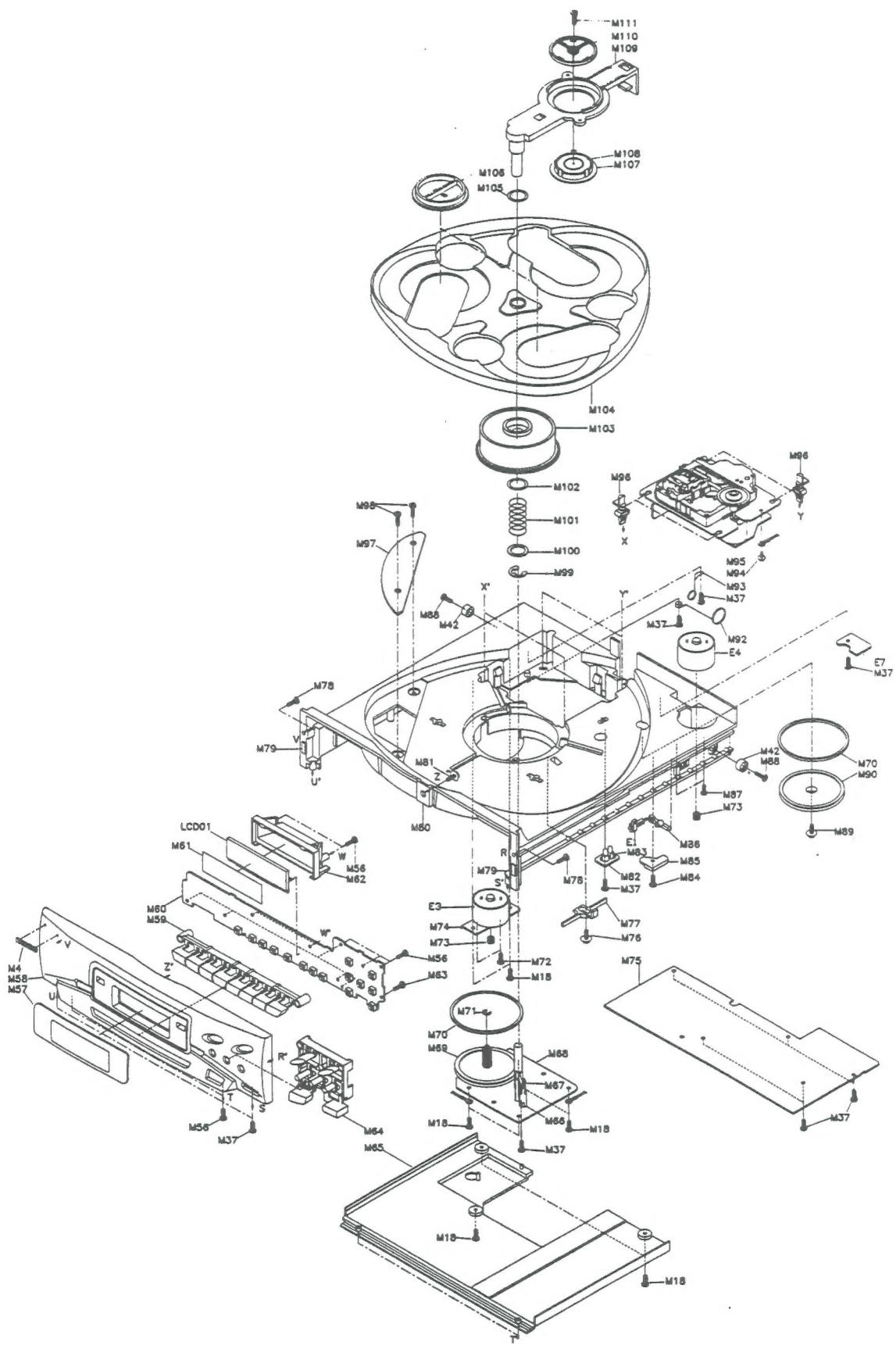
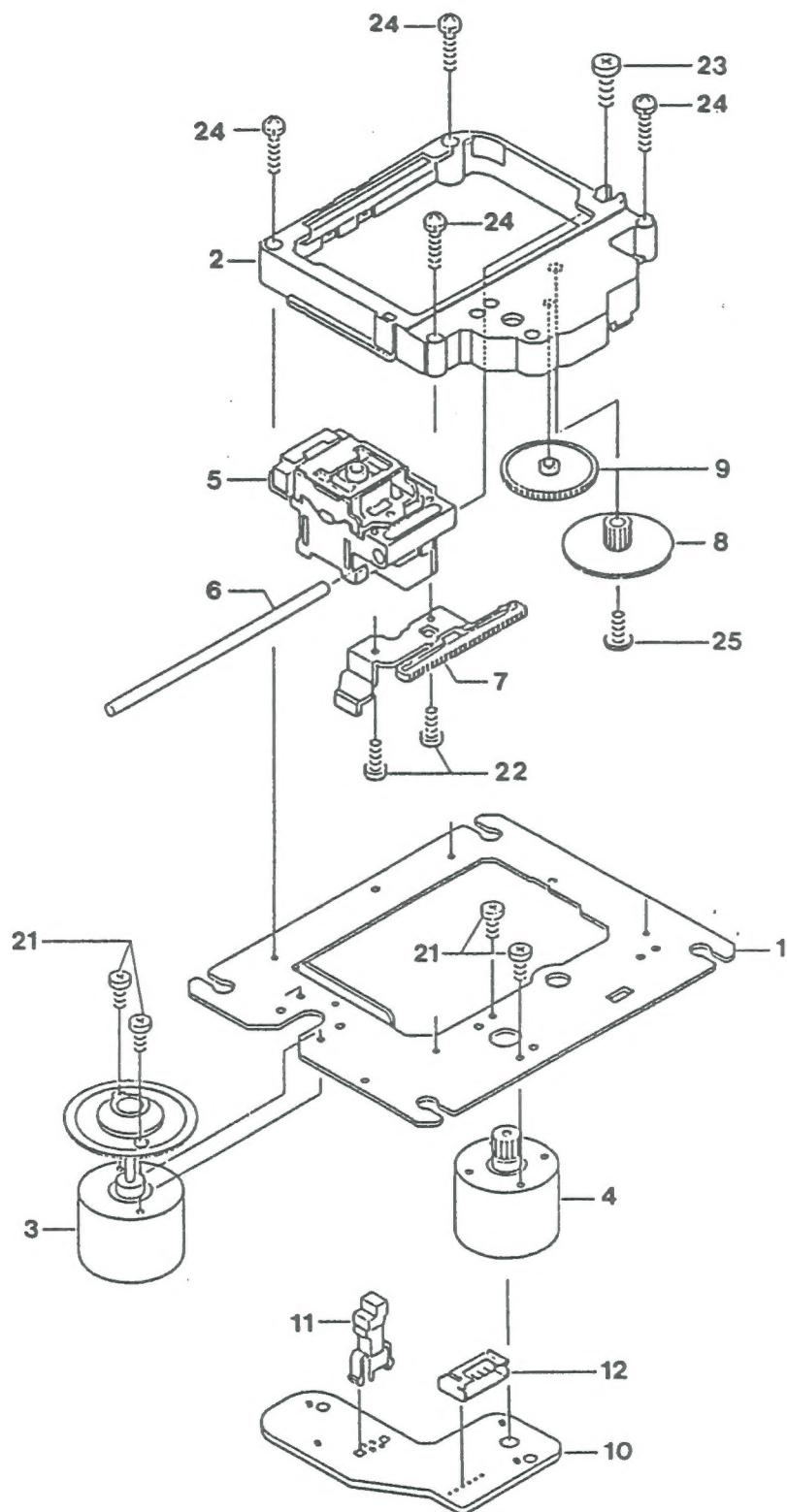


Figure 10

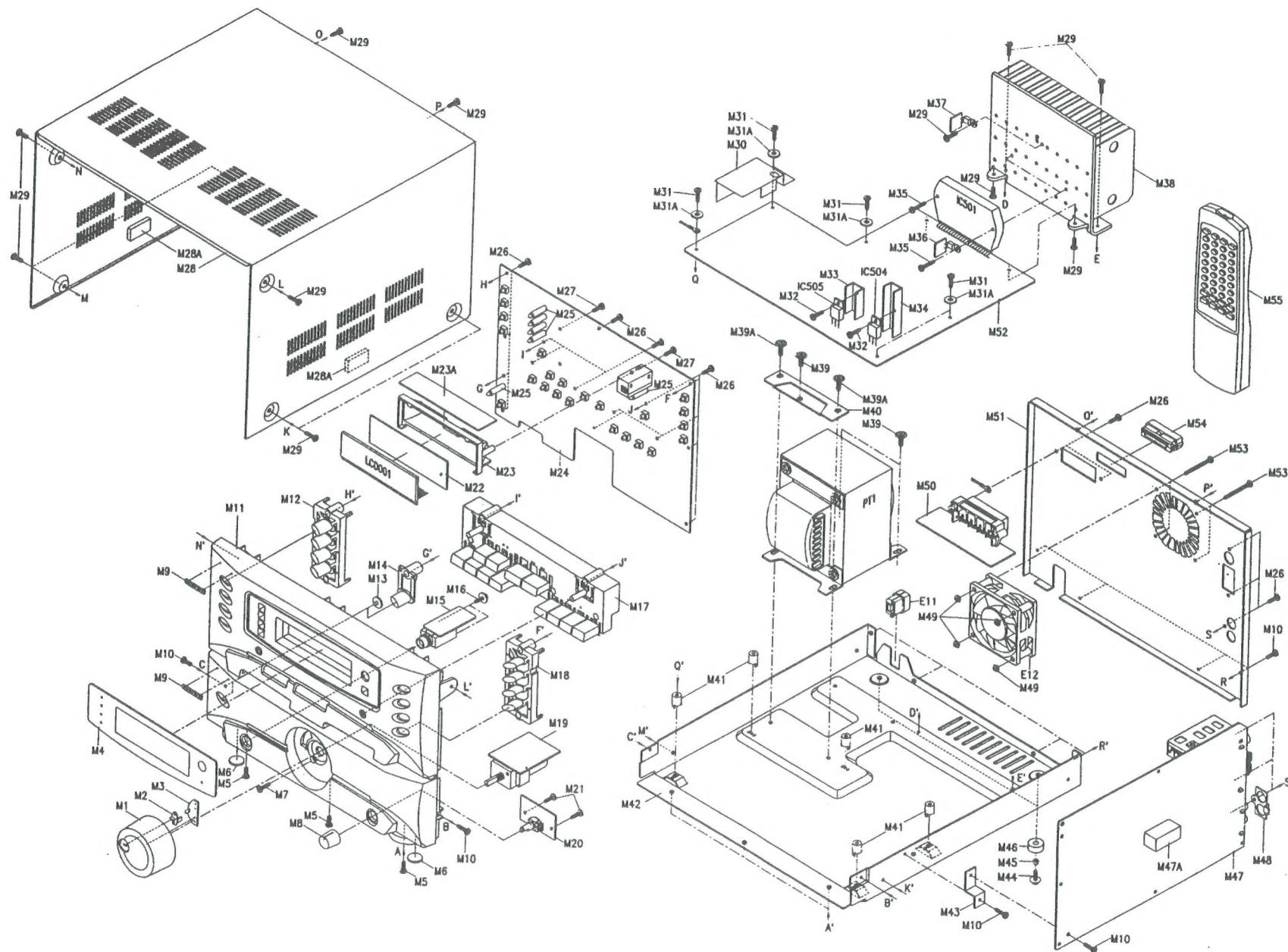
## **Mechanical Exploded View – CD**



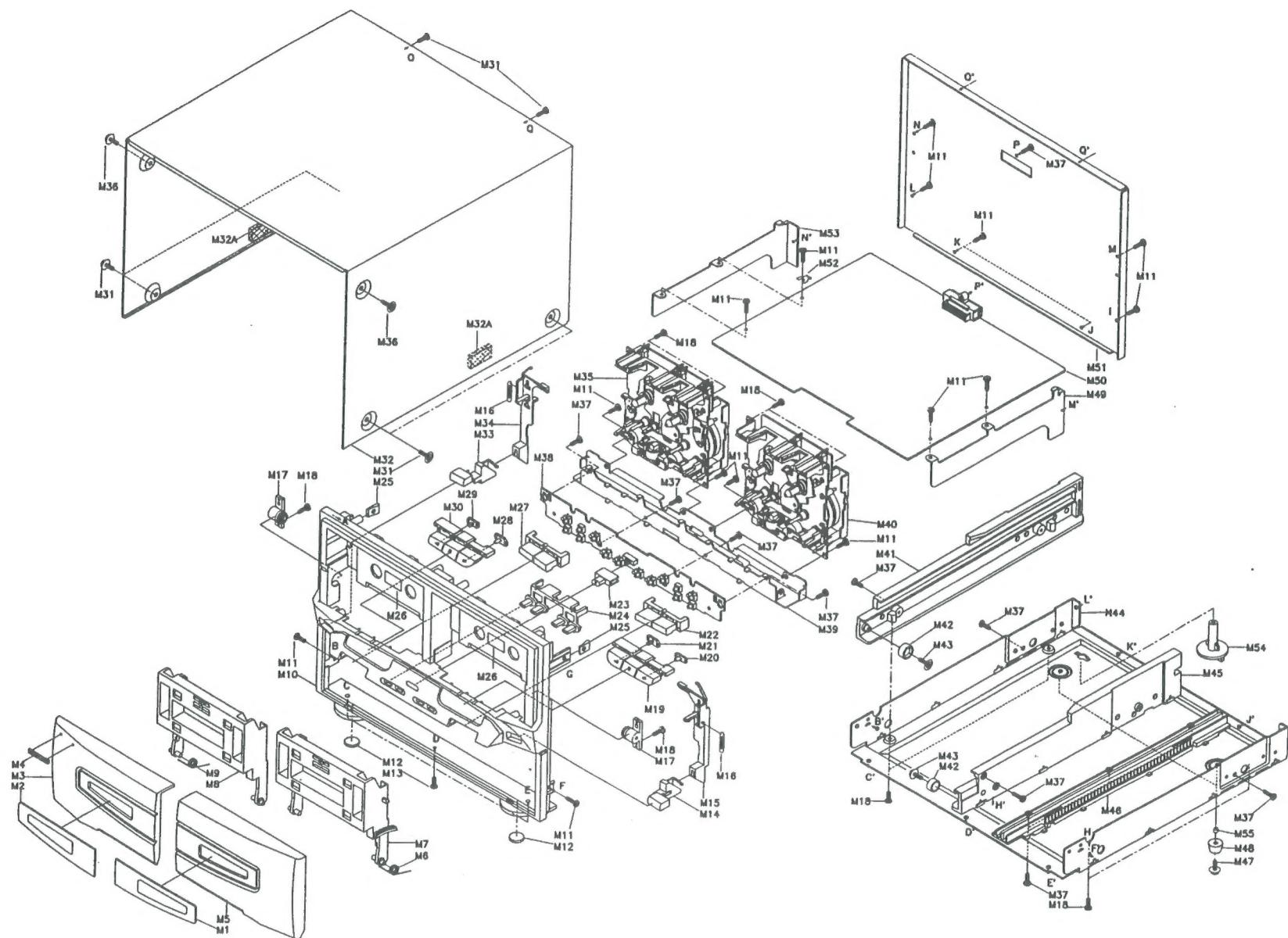
## CD Deck Exploded View



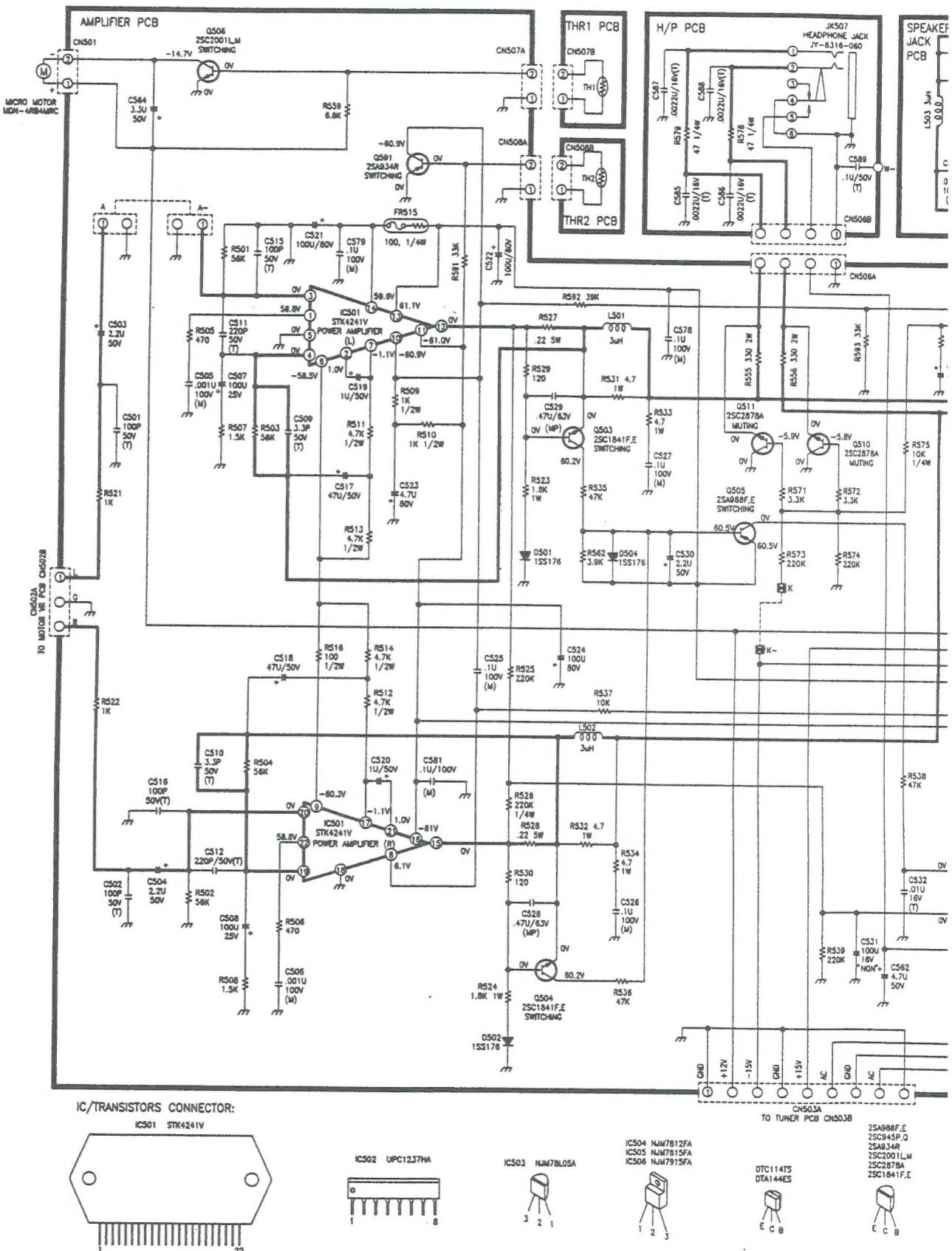
### **Mechanical Exploded View- Receiver**



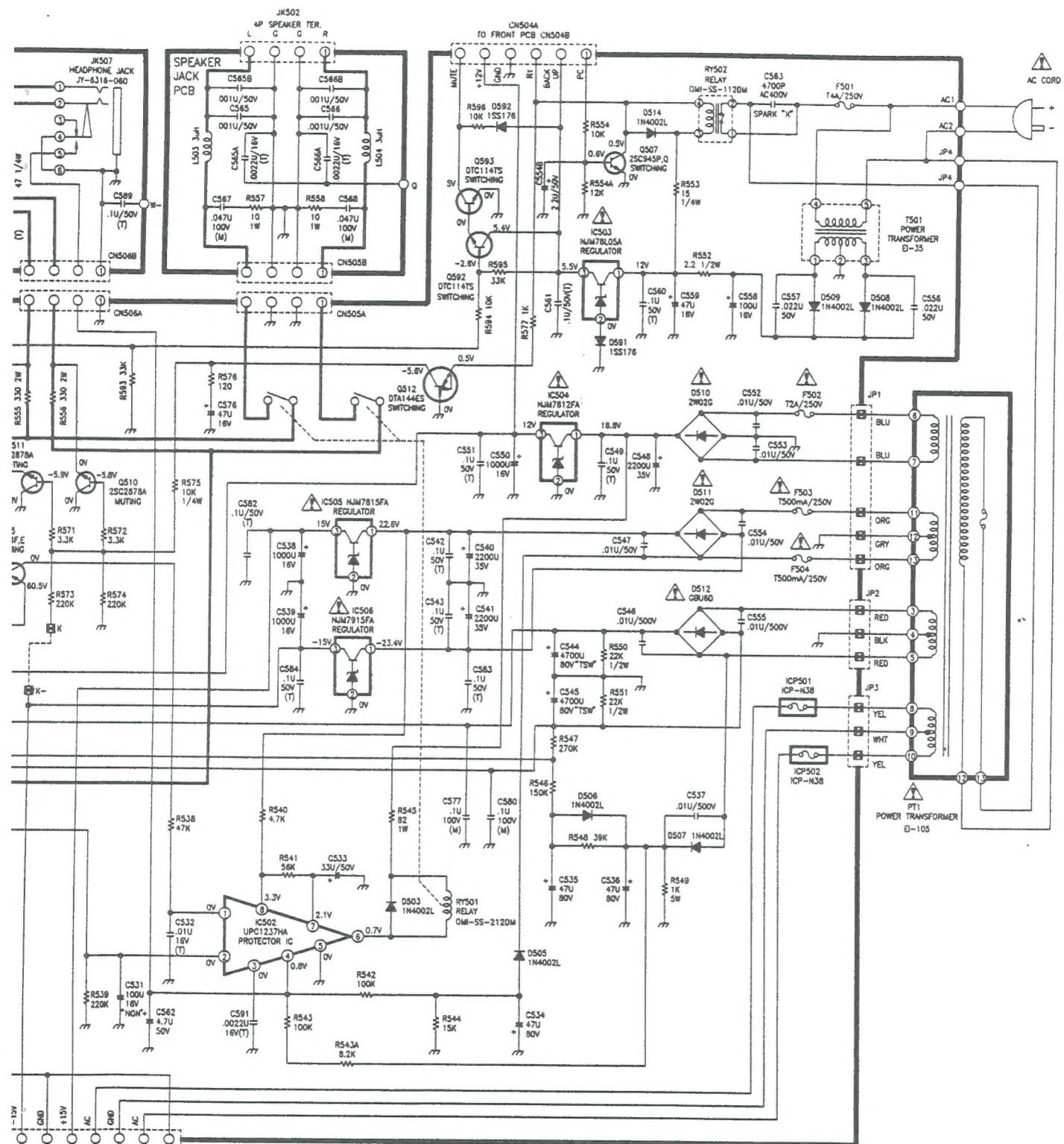
## **Mechanical Exploded View-Cassette**



# Schematic Diagram



# Schematic Diagram - Amp.



## SCHEMATIC NOTES:

1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. RESISTANCE VALUES ARE IN OHMS (K=1000, M=MEGOMH).
3. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/6 WATT CARBON FILM,  $\pm 5\%$  TOLERANCE.
4. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER (10 MEGOHMS MIN).
5. (T)=MULTI-LAYER CERAMIC CAPACITOR.
6. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
- 7.
- 8.
9. TO LOCATE CONNECTOR HOOKUPS MATCH THE ALPHA (OR NUMERIC) DESIGNATION TO THE CORRESPONDING ALPHA (OR NUMERIC) DESIGNATION (EXAMPLE: CONNECTOR A CONNECTS TO CONNECTOR A).

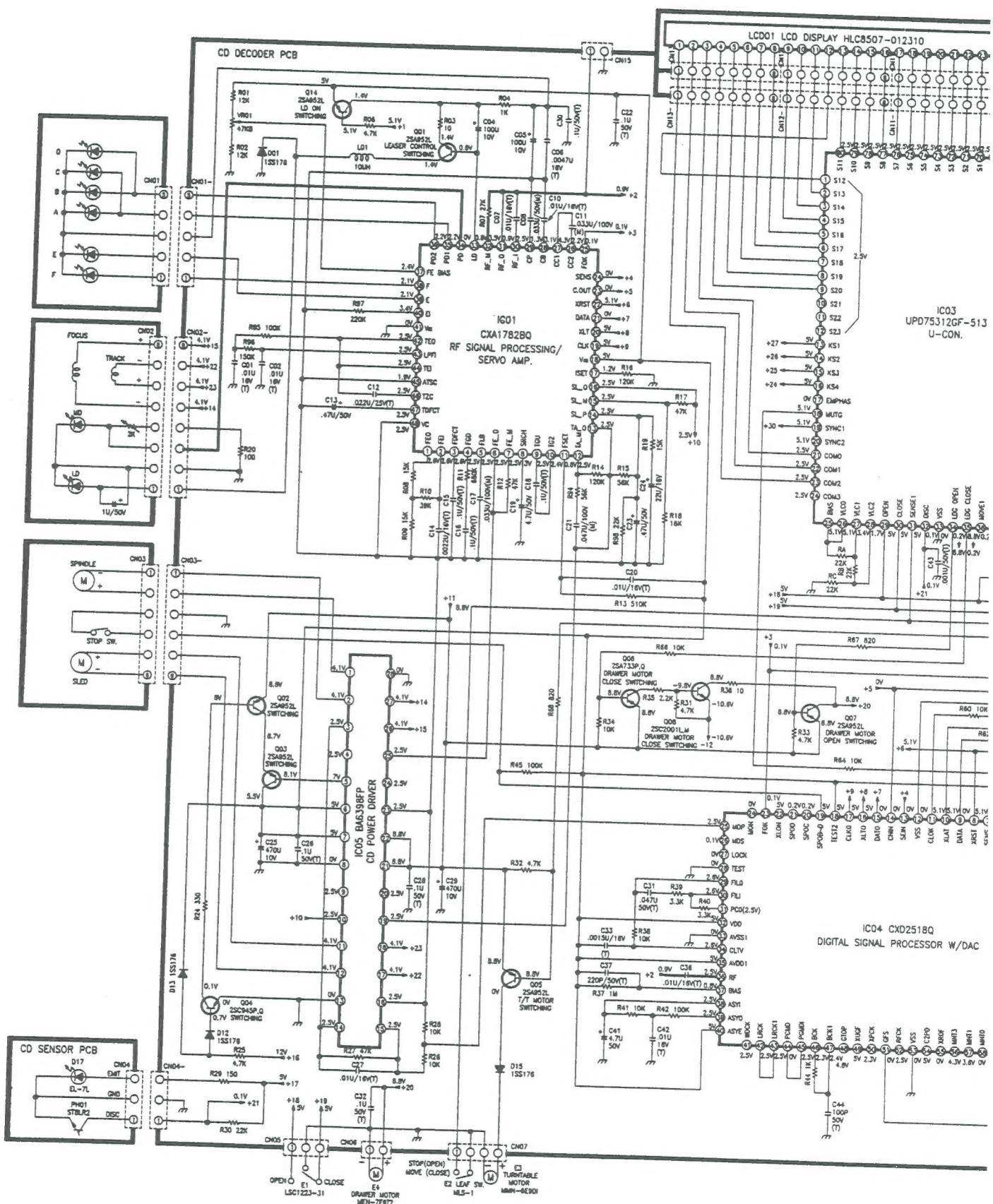
CN503A TO TUNER PCB CN503B

25A988F.E  
25C945P.Q  
25A934R  
25C2871LM  
25C2878A  
25G1841F.E

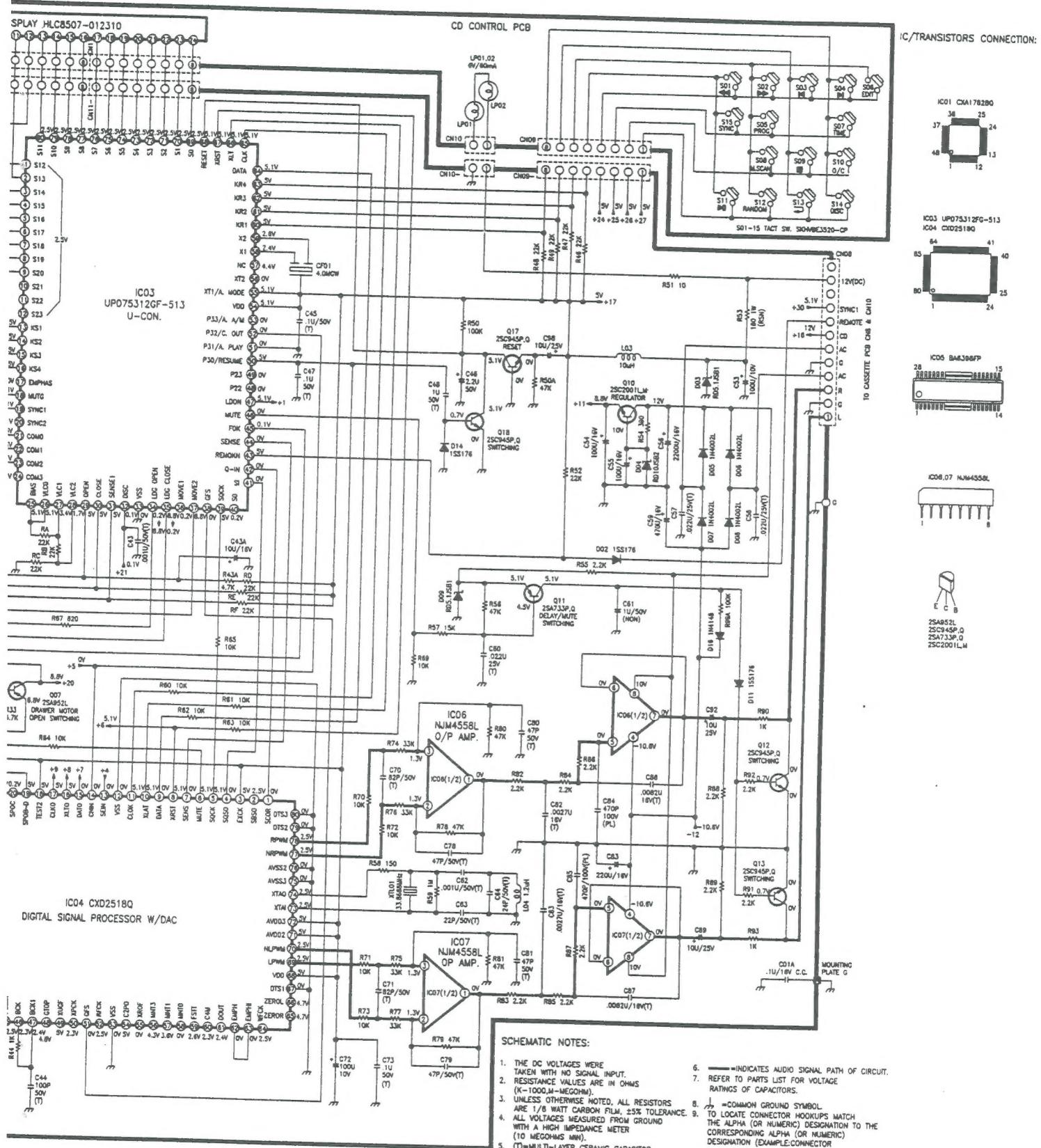
OTC114TS  
DTA144ES



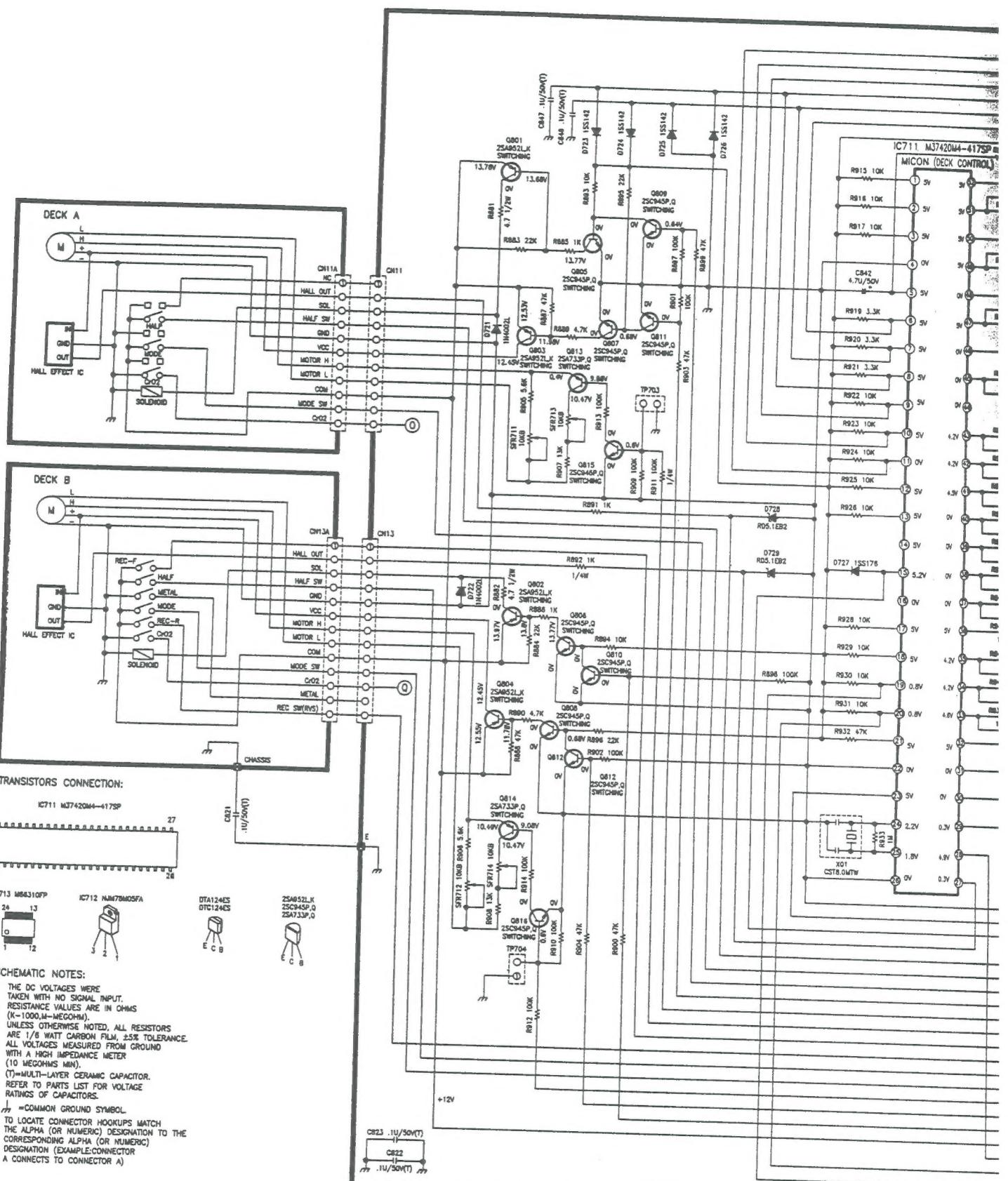
## Schematic Diagrams



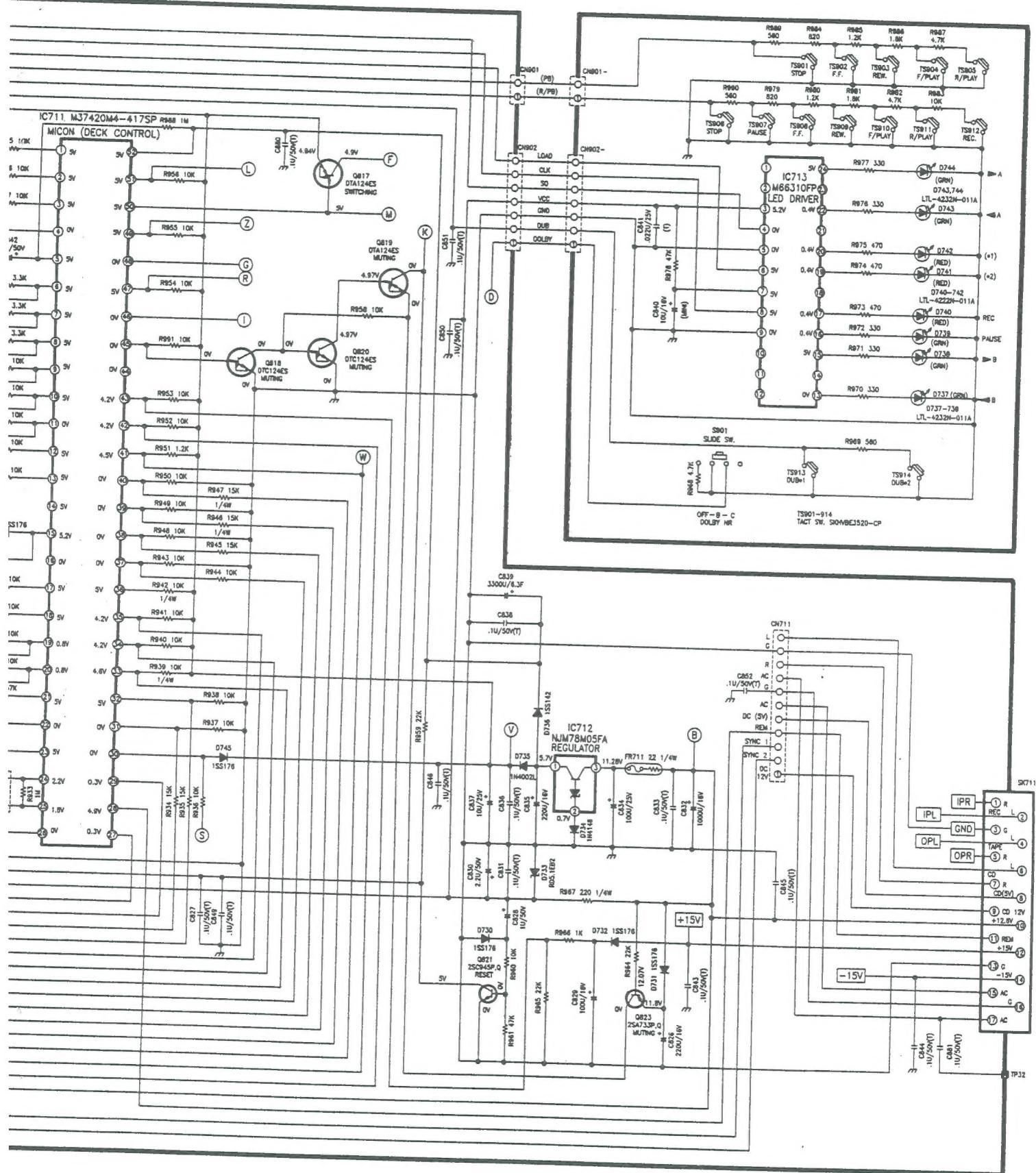
# Schematic Diagram – CD



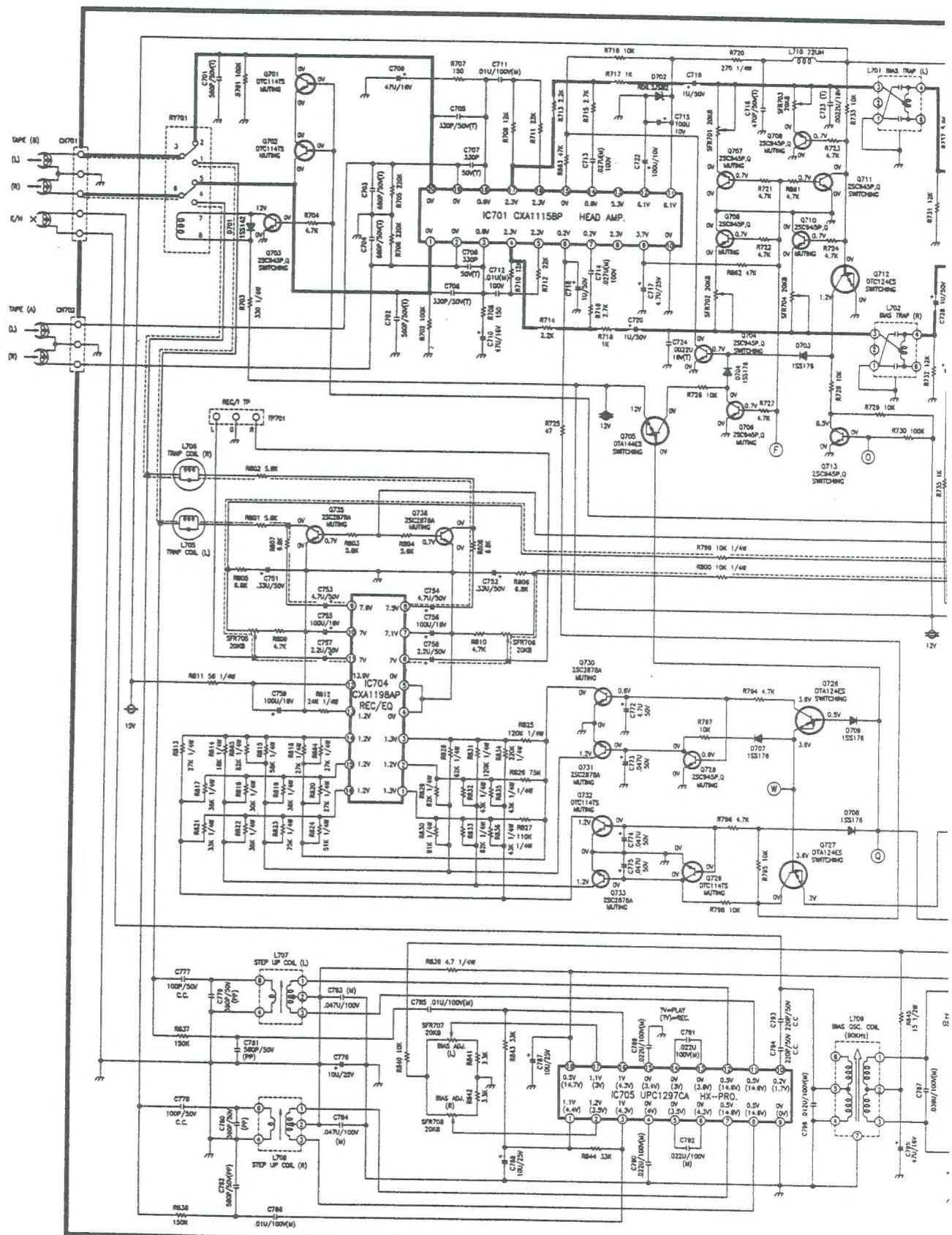
# Schematic Diagram



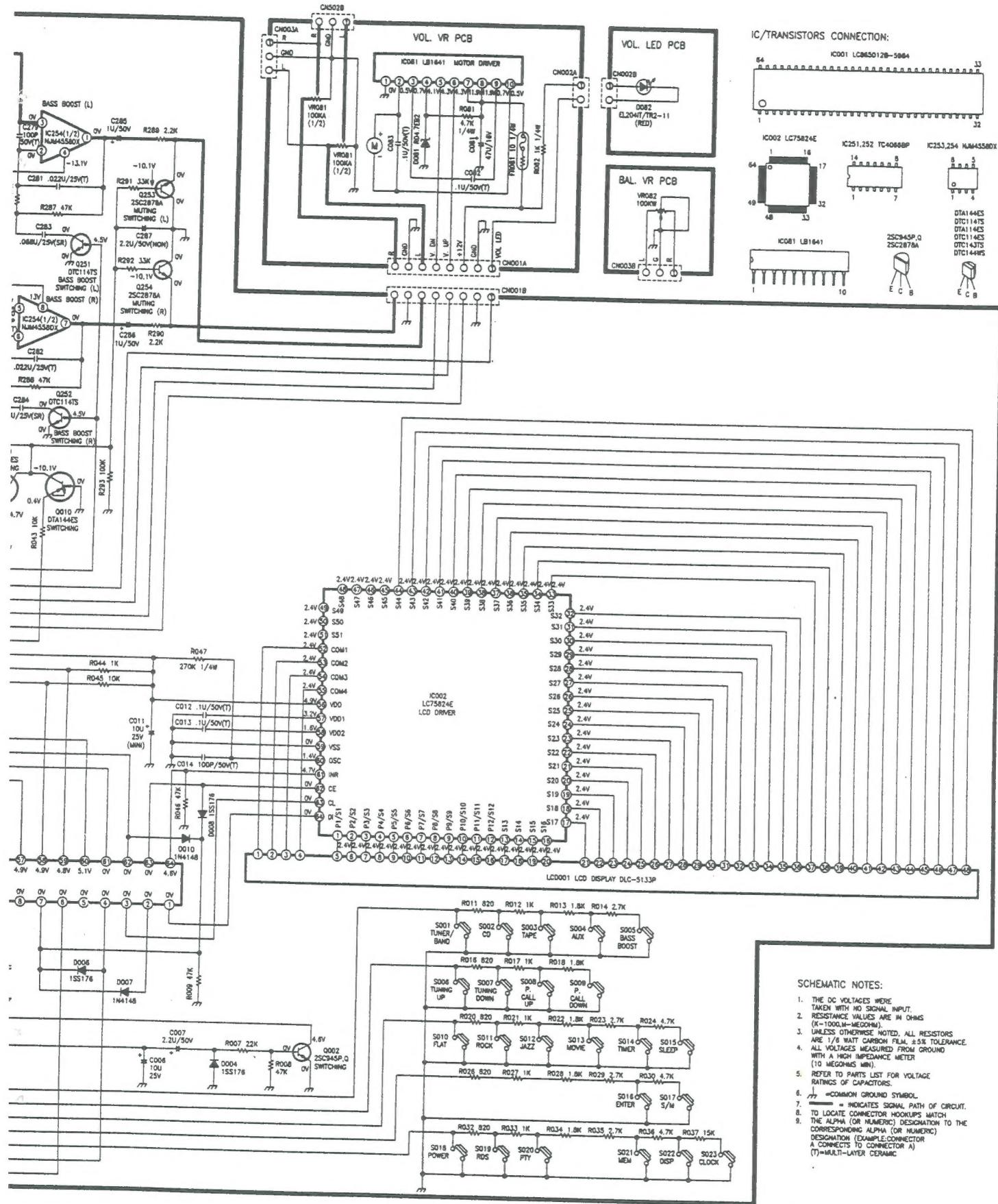
## **ematic Diagram – Cassette (2/2)**



# Schematic Diagram - Ca



# Schematic Diagram- Front



## SCHEMATIC NOTES:

1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. RESISTANCE VALUES ARE IN OHMS (K = 1000).
3. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/8 WATT CARBON FILM,  $\pm 5\%$  TOLERANCE.
4. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER (10 MEGOHMS MIN).
5. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
6.  $\text{---}$  = COMMON GROUND SYMBOL.
7.  $\text{---}$  = INDICATES SIGNAL PATH OF CIRCUIT.
8. TO LOCATE CONNECTOR HOOKUPS MATCH THE ALPHABETIC LETTERS/NUMBERS DESIGNATION TO THE CORRESPONDING ALPHABETIC (OR NUMERIC) DESIGNATION (EXAMPLE: CONNECTOR A CONNECTS TO CONNECTOR A)
- (T) = MULTI-LAYER CERAMIC